Progress in CARDIOVASCULAR DISEASES

EDMUND H. SONNENBLICK, M.D., *Editor*
MICHAEL LESCH, M.D., *Co-Editor*
Charles K. Friedberg, M.D., *Founding Editor*

VOLUME XXIV, 1981–1982

No. 1 (July/August)

PACEMAKER UPDATE. II.
Doris Escher, *Guest Editor*

Stimulation and Sensing Thresholds for Cardiac Pacing: Electrophysiologic and Technical Aspects ..... *S. Serge Barold, Ling S. Ong, and Robert A. Heinle* 1

Role of Electrophysiologic Testing in the Diagnosis and Treatment of Patients With Known and Suspected Bradycardias and Tachycardias ..... *John D. Fisher* 25

No. 2 (September/October)

MECHANISMS OF ARRHYTHMIA

Chronic Dysrhythmias: A New Look at Old Questions
Donald H. Singer and Robert E. Ten Eick 91

Cellular Electrophysiology of Ventricular and Other Dysrhythmias: Studies on Diseased and Ischemic Heart ..... *Donald H. Singer, Clive M. Baumgarten, and Robert E. Ten Eick* 97

Ventricular Dysrhythmia: Membrane Basis *Or* Of Currents, Channels, Gates, and Cables
Robert E. Ten Eick, Clive M. Baumgarten, and Donald H. Singer 157

No. 3 (November/December)

VASODILATORS. I.
Jay N. Cohn, M.D., *Guest Editor*

Introduction: Marriage of the Heart and the Peripheral Circulation ..... *Jay N. Cohn* 189

Local and Regional Regulation of Coronary Vascular Tone
Robert J. Bache and Daniel J. Dymek 191

Regulation of Vascular Tone, Molecular Mechanisms ..... *R. Clinton Webb and David F. Bohr* 213

Special Articles

The Local Regulation of Cerebral Blood Flow
Robert M. Berne, H. Richard Winn, and Rafael Rubio 243

Exercise Testing and Ancillary Techniques to Screen for Coronary Heart Disease
Victor F. Froelicher and David Maron 261

No. 4 (January/February)

VASODILATORS. II.
Jay N. Cohn, M.D., *Guest Editor*

Physiologic and Pharmacologic Determinants of Vasodilator Response: A Conceptual Framework for Rational Drug Therapy for Chronic Heart Failure
Milton Packer and Thierry H. Le Jemtel 275

Left Ventricular Afterload and Aortic Input Impedance: Implications of Pulsatile Blood Flow
Wilmer W. Nichols and Carl J. Pepine 293

Aortic Input Impedance in Cardiovascular Disease ..... *Carl J. Pepine and Wilmer W. Nichols* 307

Effectiveness of Long-Term Vasodilator Administration in the Treatment of Chronic Left Ventricular Failure ..... *Joseph A. Franciosa* 319

Special Article

Secondary Prevention After Myocardial Infarction: A Review of Long-Term Trials
Graham S. May, Kimberley A. Eberlein, Curt D. Furberg, Eugene R. Passamani, and David L. DeMets 331

No. 5 (March/April)

VASODILATORS. III.
Jay N. Cohn, M.D., *Guest Editor*

Differential Systemic Arterial and Venous Actions and Consequent Cardiac Effects of Vasodilator Drugs ..... *Richard R. Miller, William H. Fennell, James B. Young, Andres R. Palomo, and Miguel A. Quinones* 353

The Contractile Behavior of the Heart and Its Functional Coupling to the Circulation
Karl T. Weber, Joseph S. Janicki, William C. Hunter, Sanjeev Shroff, Eugene S. Pearlman, and Alfred P. Fishman 375

Vascular Hemodynamic Impedance Measurement ... *Stanley M. Finkelstein and V. Ross Collins* 401

No. 6 (May/June)

VASODILATORS. IV.
Jay N. Cohn M.D., *Guest Editor*

Coronary Vascular Responses to Vasodilator Drugs ..... *Robert E. Goldstein* 419

Alterations in Vasomotor Tone in Congestive Heart Failure ..*Robert Zelis and Stephen F. Flaim* 437

Annual Indexes 461

"Productivity is up 10% to 20%"

"Lower absenteeism"

"You can tell by their attitude—the workers who participate are happier, more cooperative, much sharper"

"We can identify direct savings of $2,000,000 per year"

"The program has had a distinct bearing on staff performance. Our engineering people now have a camaraderie with their counterparts in other departments"

"It started in headquarters. By next year we hope to have it in all our factories and research facilities"

These are actual quotes from executives of large and small companies and organizations in Denver, Omaha, Birmingham, and Greenwich. They're talking about company fitness programs. That's right, many employers now provide facilities or opportunities for exercise for their employees. They are glad they did.

Most began with a concern for employee health and well being. What they have found is a variety of additional benefits. These benefits add up to *increased productivity*—so much so that several companies can demonstrate that the fitness program pays for itself. Add to this improved morale, better internal communications, and employee health. How can you lose? Write us now for more information:

The President's Council on Physical Fitness and Sports
Department B
Washington, D.C. 20201

Employee Fitness: In the long run you will be the winner.